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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/890,321	10/12/2001	. Akira Okazaki	1776/4066	9517
75	590 05/07/2003		12	
Morgan & Finnegan			EXAMINER	
345 Park Avent New York, NY			HAMPTON HIGHTOWER, PATRICIA	
			ART UNIT	PAPER NUMBER
		1711		
			DATE MAILED: 05/07/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

•			501/211				
	$\cap$	Application No.	Applicant(s)				
	$\bigcirc$	09/890,321	OKAZAKI, AKIRA				
Office Action Summary		Examin r	Art Unit				
		Patricia Hightower	1711				
Period fo	Th MAILING DATE of this communication app or Reply	pears on the cover she t with the c	corr spond nce address				
THE   - External content of the cont	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on 1/22	<u>2/03; 1/9/03</u> .					
2a)	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.					
3)	Since this application is in condition for alloward closed in accordance with the practice under						
•	ion of Claims						
, —	Claim(s) <u>See Continuation Sheet</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ e>#⊐							
6) <u>F</u>	)[☐ Claim(s) is/are rejected. )[☐ Claim(s) <u>21,22,26,27,46,47,55,56 and 59-61</u> is/are objected to.						
/)□							
·-	Claim(s) are subject to restriction and/o ion Papers	r election requirement.					
· · · _	The specification is objected to by the Examine	r					
•	The drawing(s) filed on is/are: a)☐ accept		miner				
. • / 🗀	Applicant may not request that any objection to the						
11) 🔲 .	The proposed drawing correction filed on	-					
,	If approved, corrected drawings are required in rep	bly to this Office action.	•				
12) 🗌 .	The oath or declaration is objected to by the Ex	aminer.					
Priority u	ınder 35 U.S.C. §§ 119 and 120						
13)	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	n)-(d) or (f).				
a)[	☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
* S	3. Copies of the certified copies of the prior application from the International But Gee the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	· ·				
_	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
	) ☐ The translation of the foreign language pro Acknowledgment is made of a claim for domesti	• •					
Attachment	_	1					
1) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>10</u>	5) Notice of Informal F	v (PTO-413) Paper No(s) Patent Application (PTO-152)				
C D-1	100						

. Continuation of Disposition of Claims: Claims pending in the application are 2-7,12,21,22,26,27,31-37,39,40,46,47,55,56,59-61,71-73,82,83 and 85-88.

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## Information Disclosure Statement

The information disclosure statement filed January 22, 2003 has been considered and has been made of record.

## Response to Amendment

The amendment filed January 9, 2003 in which claims 1, 4, 11 and 15 were cancelled and claims 87-88 added, is acknowledged. Claims 2, 3, 4,5, 7, 12, 21-22, 26-27, 31-37, 39-40, 46-47, 55-56, 59-61, 71-73, 82-83 and 85-88 are presently pending. Although in the amendment filed January 9, 2003 the applicant indicated that claim 4 should be canceled; in said amendment the applicant submitted claim 4 as amended 4. Clarification is requested.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 39-40 are newly rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 39-40 the applicant is claiming "a coating" and it is suggested that the applicant insert the term –composition—after "coating".

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 2-7, 12, 26-27, 31-37 and 87-88 are newly rejected under 35 U.S.C. 102(b) as being anticipated by Chang (USP 4,188,472) newly cited.

Chang (USP 4,188,472) discloses a curable lactone derived resin which is the reaction product of (a) about 30% - 95% by weight of a lactone modified resin and (b) from about 5% - 70% by weight of an isocyanate; and the lactone derived resins are especially useful for floor tile coatings which are UV curable; which anticipates the claimed invention. See abstract; col. 3, lines 48 – col. 4, lines 1-6; col. 1, lines 54-68 – col. 2, lines 1-5, 10-37, 55-65, 66-68; col. 3, lines 1-35, 36-39, 40-47; col. 4, lines 7-61; col. 5, lines 1-7, 8-9, 14-28, 39-43, 61-68; Example IV, VI; the claims.

Chang teaches at col. 2, lines 55-68, the most preferred lactone starting reactants is the epsilon-caprolactone wherein x in the formula is 4 and all the R's are hydrogen. The lactone is initially modified with an ester containing from 1 to3 acrylyl or alpha-substituted acrylyl groups and one or two hydroxyl groups, include the hydroxyalkyl acrylates and hydroxyalkylmethacrylates.

The patentee teaches at col. 3, lines 23-68, the esters used to react with the lactone can also be synthesized from an acrylic or methacrylic acid is reacted with an

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epoxy compound. The reaction results in the opening of the epoxy ring to form a hydroxyl group and the epoxy compounds attachmen to the acrylic or methacrylic acid to form an ester. Another ester which can be reacted with the lactone is derived from the reaction of an acrylic acid or methacrylic acid with a polyol. See col. 3, lines 36-40. At col. 5, lines 8-12, the patentee teaches the coating compositions can contain 100 percent of the lactone derived resin. However, a minor amount, i.e., up to 20 percent of a non-reactive solvent can also be included in the composition for further viscosity reduction, flow control, etc.

Claims 21-22, 26-27, 46-47, 55-56, and 59-61 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 82-83,85-86 are allowable.

Applicant's arguments with respect to claims 2-7, 12, 21-22, 26-27, 31-37, 39-40, 46-47, 55-56, 59-61, 71-73, 82-83 and 85-88 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia Hightower whose telephone number is (703) 308-2434. The examiner can normally be reached on 9:30 A.M. -6:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (703) 308-2462. The fax phone numbers for the organization where this application or proceeding is assigned are (703)

872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

P. Hightower:evh April 3, 2003

P. Hampton-Hightower Primary Examiner Art Unit 1711